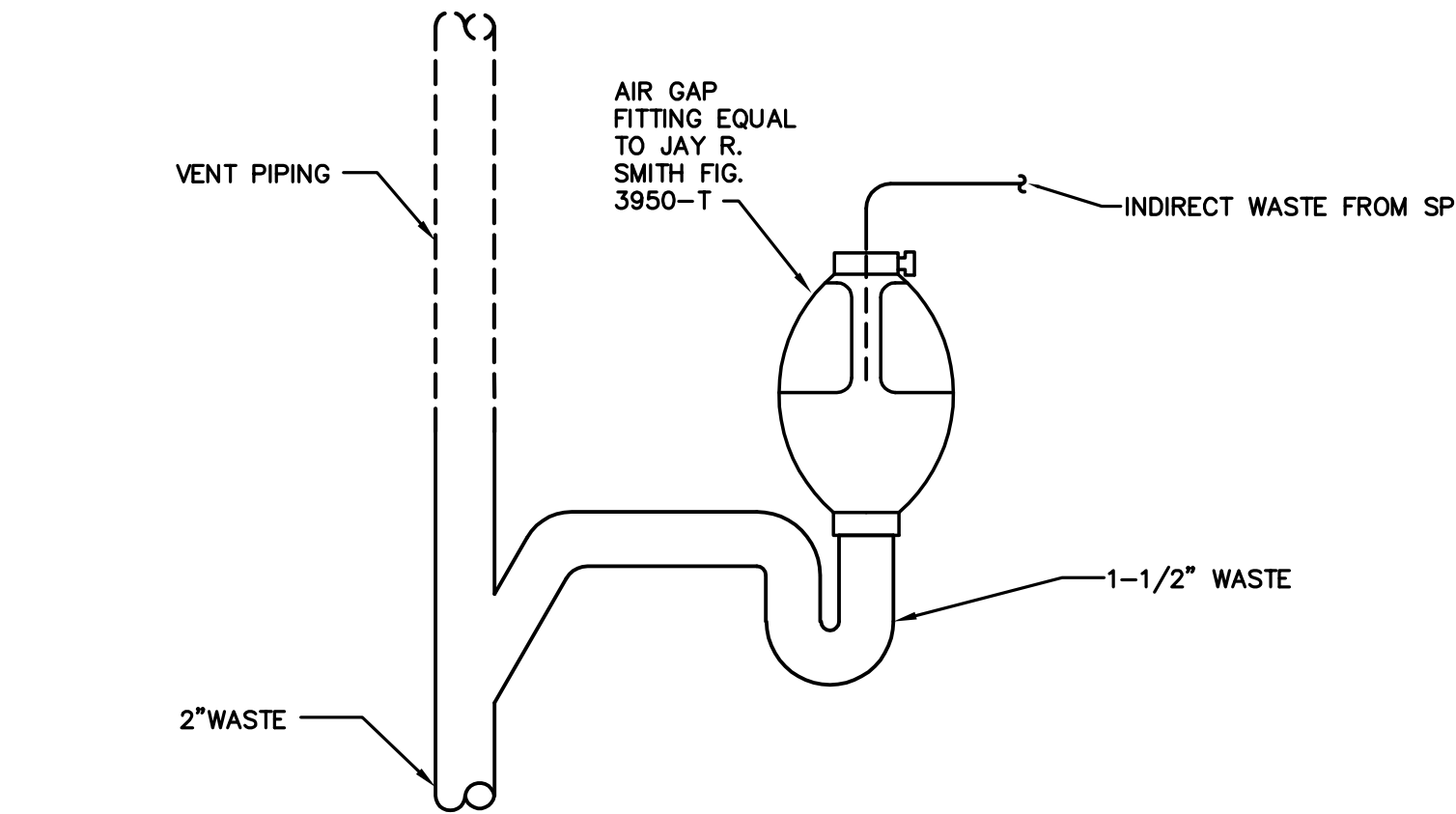


three inches = one foot  
one and one half inches = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

ZONE VALVE BOX SCHEDULE							
DESIGNATION	SIZE OF PIPING & VALVE					LOCATION	SERVING
	0	A	V	N	N <sub>2</sub> O		
ZVB-1	3/4"	1/2"	3/4"	-	-	NURSE STATION	PATIENT ROOMS
ZVB-2	3/4"	1/2"	3/4"	-	-	NURSE STATION	PATIENT ROOMS
							AA-1
							AA-2



TYPICAL INDIRECT DRAIN WITH AIR GAP DETAIL  
NO SCALE

## MEDICAL GAS LEGEND

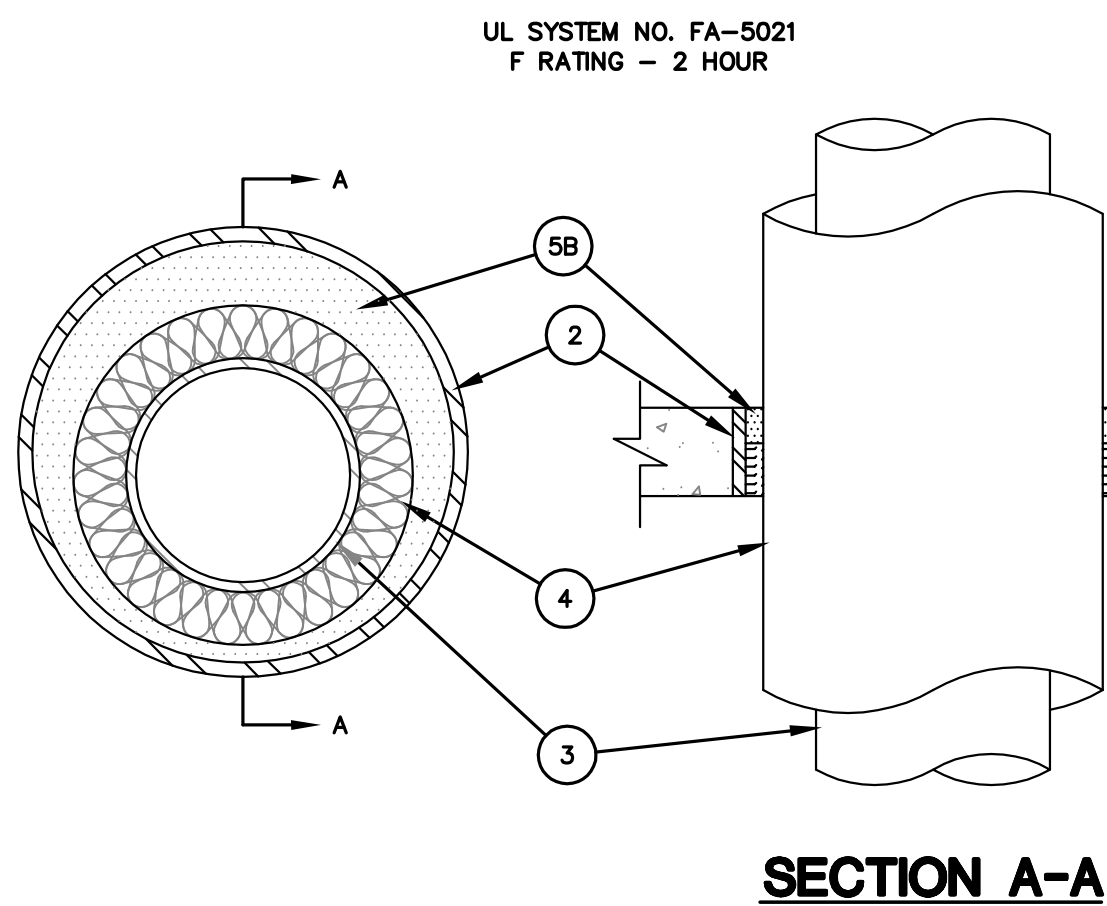
- MGC = MEDICAL GAS CEILING COLUMNS.  
MGO = MEDICAL GAS DROP.  
MGP = MEDICAL GAS HEADWALL.  
MOD = MEDICAL GAS WALL OUTLETS.  
O = OXYGEN.  
A = MEDICAL COMPRESSED AIR.  
V = MEDICAL VACUUM.  
S = SUE (ONE PER INV).  
N = NITROGEN.  
N<sub>2</sub>O = NITROUS OXIDE.  
WAG = WASTE ANESTHETIC GAS.  
MGO = O<sub>2</sub>,A,V,S,N<sub>2</sub>O,N<sub>2</sub>,WAG.
- WASTE ANESTHETIC GAS  
NITROUS OXIDE  
NITROGEN
- EXAMPLE: 2 1 2 2 0 1 1  
2 O 1 A 1 N 2 S (S)  
2 V
- MEDICAL GAS NOTES:  
1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MEDICAL GAS OUTLET LOCATIONS AND MOUNTING HEIGHTS.  
2. NOT ALL GASES MAY BE USED. THE GAS ORDER SHOWN IN THE EXAMPLE WILL BE TYPICAL FOR ALL OUTLETS.  
3. PROVIDE BLANK COVER PLATE BETWEEN VACUUM OUTLET AND SLIDE.

DESIG	TYPE	WASTE	VENT	CW	HW	REMARKS
WC-1	WATER CLOSET WALL HUNG HANDICAPPED	4"	2"	1"	-	KOHLER K-4330, WALL HUNG, SLOW "ROYAL OPTIMA" 111 1.8 ES-S TWO SENSOR OPERATED FLUSH VALVE WITH TRANSFORMER AND POSITIONING & SUPPORT KIT, CHURCH #500C OPEN FRONT SEAT, LESS COVER, JAY. R. SMITH CARRIER.
WC-2	WATER CLOSET WALL HUNG WITH BED PAN WASHER HANDICAPPED	4"	2"	1"	-	KOHLER K-4330-L, WALL HUNG, BEDPAN LUOS, SLOW "ROYAL" BPH-1150-1.6 FLUSH VALVE, CHURCH #500C OPEN FRONT SEAT, LESS COVER, JAY. R. SMITH CARRIER.
L-1	LAVATORY, WALL HUNG HANDICAPPED	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER K-2035-1, JAY R. SMITH CARRIER, CHICAGO FAUCET 116.101AB.1, HANDWREN TRANSFORMER 240.631.00.11, 119 THERMOSTATIC MIXING VALVE, MOUNT 155A STRAINER, PW2105 P-TRAP AND SUPPLY COVERS, 2165-LX LOOSE KEY SUPPLIES. MOUNT RIM PER ADA REQUIREMENTS. SET MIXING VALVE TO 110°F.
L-2	LAVATORY, WALL HUNG HANDICAPPED	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER K-2035-8, JAY R. SMITH CARRIER, CHICAGO FAUCET 404-37CP, MOUNT 155A STRAINER, PW2105 P-TRAP AND SUPPLY COVERS, LK-2165 LOOSE KEY SUPPLIES. MOUNT RIM PER ADA REQUIREMENTS.
L-3	LAVATORY, WALL HUNG HANDICAPPED	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER K-2035-8, JAY R. SMITH CARRIER, CHICAGO FAUCET 786-TWON2FC, CHICAGO FAUCET PEDAL VALVE 854-EP30CP, MOUNT 155A STRAINER, PW2105 P-TRAP AND SUPPLY COVERS, LK-2165 LOOSE KEY SUPPLIES. MOUNT RIM PER ADA REQUIREMENTS.
L-4	LAVATORY, WALL HUNG HANDICAPPED	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER K-2035-1, JAY R. SMITH CARRIER, CHICAGO FAUCET 116.103AB.1, TRANSFORMER 240.631.00.11, 119 THERMOSTATIC MIXING VALVE, MOUNT 155A STRAINER, PW2105 P-TRAP AND SUPPLY COVERS, LK-2165 LOOSE KEY SUPPLIES. MOUNT RIM PER ADA REQUIREMENTS.
SK-1	STAINLESS STEEL SINK, TWO COMPARTMENT	1-1/2"	1-1/2"	1/2"	1/2"	ELKAY L240, 3310-55.3, 8.5" DEEP, 3-HOLE, 18GA, CHICAGO FAUCET 786-QW2C GOOSE NECK FAUCET WITH WRIST BLADES HANDLES, MOUNT 155A STRAINER, PW2105 P-TRAP AND SUPPLY COVERS, 2165-LX LOOSE KEY SUPPLIES.
SK-2	UNDER COUNTER MOUNT STAINLESS STEEL LAVATORY HANDICAPPED	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER 2609, CHICAGO FAUCET 116.203.21.1, 119 THERMOSTATIC MIXING VALVE, MOUNT 152 ORB STRAINER, PW2105 P-TRAP AND SUPPLY COVERS, 2165-LX LOOSE KEY SUPPLIES.
SH-1	SHOWER PAN HANDICAPPED	2"FD	1-1/2"	1/2"	1/2"	POWERS E420 E420-T/S-1-2-0-0-0-3-B-W COMBINATION T/P TEMPERING VALVE SYSTEM ASSE 1016, COLOR CODED TRIM PLATE, IN-LINE VACUUM BREAKER, HAND HELD METAL HOSE, 30" SLIDE BAR, SHOWER PAN SPECIFIED BY ARCHITECT. SEE NOTE 3.
MS-1	MOP SINK	3"	1-1/2"	1/2"	1/2"	FIAT MSB-2424 MOLDED STONE, 830-AA FAUCET WITH VACUUM BREAKER, 832-AA HOSE AND BRACKET, (2) E-77-A BUMPER GUARD, (2) MSG-2424 WALL GUARD.
CSS-1	CLINICAL SERVICE SINK WALL HUNG	4"	2"	1"	1/2"	KOHLER K-12867 9512.013 WITH RIM GUARDS AND STRAINER, SLOW ROYAL 117 FLUSH VALVE, CHICAGO FAUCET 815-VB, WITH 809 RINSE SPRAYER, JAY. R. SMITH CARRIER.
EW-1	DRINKING FOUNTAIN TWO-LEVEL HANDICAPPED	1-1/2"	1-1/2"	1/2"	---	ELKAY L240M, STAINLESS STEEL FINISH, 120V, 1 PHASE, 4.0 FLA, WATER FILTER, MOUNT 8902 P-TRAP, 2165-LX SUPPLY. MOUNT HANDICAP SPOUT PER ADA REQUIREMENTS.

NOTES:  
1. ALL FIXTURES SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED.  
2. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PLUMBING FIXTURES OF ONE OF THE FOLLOWING:  
3. EXACT LOCATION OF SHOWER PAN (BY ARCHITECT) DRAIN LOCATION SHALL BE COORDINATED WITH FLOOR STRUCTURE AND EACH SHOWER PAN ORDER ACCORDINGLY. DRAIN BODY FOR SHOWER PAN SHALL BE OF CAST BRASS OR OTHER NON-PVC MATERIAL.

## PLUMBING EQUIPMENT SCHEDULE

ITEM ID	ITEM DESCRIPTION	MANUFACTURER/MODEL NO.
FD	FLOOR DRAIN	JAY R. SMITH FIG. 2005-A, TRAP PRIMER CONNECTION
FD-1	FLOOR DRAIN	JAY R. SMITH FIG. 2005-050-F37-NG, TRAP PRIMER CONNECTION, ANTI-FLOOD RIM, NICKEL BRONZE
FS	FLOOR SINK	JAY R. SMITH FIG. 3160-12 HALF GRATE, TRAP PRIMER CONNECTION
PRV	PRESSURE REGULATING VALVE	FISHER 66 SERIES, EQUIPMENT OR EQUAL, WHEN USED IN INTERIOR SPACES, ROUTE VENT TO EXTERIOR.
BV	BALANCING VALVE	BELL & GOSSETT CIRCUIT SETTER RF, (BALANCE TO GPM) OR EQUAL BY TACO OR BELL & GOSSETT
TP	TRAP PRIMER	PPP INC. PR-500 WITH DU-U WHERE MULTIPLE DRAINS ARE PRIMED
CO	FLOOR CLEANOUT	J.R. SMITH FIG. FIG. 4033
WCO	WALL CLEANOUT	J.R. SMITH FIG. FIG. 4472
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	WATTS 909-0T-S, STRAINER, WITH AIR GAP DRAIN. ROUTE AIR GAP DRAIN TO NEAREST FD.
SA	SHOCK ABSORBER	JAY R. SMITH FIG. 5020
DB-1	DIALYSIS BOX	BRADLEY 7920-SSV STAINLESS STEEL BODY, SIDE HINGE LOCKING DOOR, STAINLESS STEEL VALVE, DRAIN, DOUBLE CHECK VALVE ON SUPPLY WATTS SERIES 7.
FS	FLOOR SINK	JAY R. SMITH FIG. 3160-12 HALF GRATE, TRAP PRIMER CONNECTION
FS-1	FLOOR SINK	JAY R. SMITH FIG. 3150-050, TRAP PRIMER CONNECTION
MB	ICE MAKER BOX	SIOUX CHIEF 662-112, WITH INTEGRAL MINI-RESTER
HB	HOSE BIBB	JAY R. SMITH FIG. 5609QT, INTEGRAL VACUUM BREAKER



## SECTION A-A

1. FLOOR ASSEMBLY --- MIN 2-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. MAX DIA. OF OPENING IS 18 IN.  
1A. FLOOR ASSEMBLY --- (OPTIONAL --- NOT SHOWN) --- THE FLOOR ASSEMBLY UNPROTECTED CONCRETE AND STEEL FLOOR ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL D900 SERIES DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND AS SUMMARIZED BELOW:  
A. CONCRETE --- MIN 2-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE.  
B. STEEL FLOOR AND FORM UNITS --- COMPOSITE OR NON-COMPOSITE MAX 3 IN. DEEP GALV STEEL FLUTED UNITS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN.  
2. METALLIC SLEEVE --- (OPTIONAL) --- NOM 18 IN. DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.  
3. THROUGH-PENETRANT --- ONE METALLIC PIPE OR TUBING TO BE INSTALLED WITHIN THE FIRESTOP DEVICE. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR ASSEMBLY. THE FOLLOWING TYPES OF PIPE OR TUBING MAY BE USED:  
STEEL PIPE --- NOM 12 IN. DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.  
COPPER TUBING --- NOM 6 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.  
COPPER PIPE --- NOM 6 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.  
4. PIPE COVERING\* --- NOM 1-1/2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS, JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE ANNULAR SPACE BETWEEN THE INSULATED PIPE AND THE PERIPHERY OF THE OPENING SHALL BE MIN 1/2 IN. TO A MAX 1-7/8 IN.  
SEE PIPE EQUIPMENT COVERING --- MATERIALS (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.  
5. FIRESTOP SYSTEM --- THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:  
A. PACKING MATERIAL --- MIN 1-1/2 IN. THICKNESS OF MIN 4 POF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.  
B. FILL VOID OR CAVITY MATERIAL\* --- SEALANT --- MIN 1 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. --- FS-ONE SEALANT  
\*BEARING THE UL CLASSIFICATION MARK

## FIRE PENETRATION DETAIL

NO SCALE

## ARCHITECT/ENGINEERS:

CORNER  
23 West Broad St., Suite 200  
Richmond, Virginia 23220  
Telephone: 804.353.051  
Facsimile: 804.358.1442  
Webpage: www.csarch.com

CA PROJECT 00938.02

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. --- CP6015, CP606 OR FS-ONE SEALANT  
(NOTE: L RATINGS ONLY APPLY WHEN FS-ONE SEALANT IS USED.)  
BEARING THE UL CLASSIFICATION MARKING

## FIRE PENETRATION DETAIL

NO SCALE

## PLUMBING LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATICALLY AND MAY NOT BE TO SCALE.			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---	DOMESTIC COLD WATER (TYPE 'L' HARD DRAWN COPPER)	---	GAS PRESSURE REGULATOR VALVE
---	DOMESTIC HOT WATER (TYPE 'L' HARD DRAWN COPPER)	---	BALANCING VALVE
---	DOMESTIC HOT WATER RETURN (TYPE 'L' HARD DRAWN COPPER)	---	STRAINER WITH BLOW-OFF VALVE
---	REDUCED PRESSURE BACKFLOW PREVENTER (RBPFP)	---	STRAINER
---	SANITARY SEWER PIPING (SOIL OR WASTE)	---	HYDRAULIC SHOCK ARRESTOR (SA)
---	SANITARY VENT PIPING	---	VACUUM BREAKER (VARIOUS TYPES)
---	SPECIAL WASTE PIPING (CPVC)	---	FLOOR/GRADE CLEAN OUT
---	SPECIAL VENT PIPING (CPVC)	---	HUB DRAIN (ALL TYPES) (SPECIFY)
---	ROOF DRAIN LEADER	---	FLOOR DRAIN/FLOOR SINK
---	OVERFLOW ROOF DRAIN LEADER	---	GAUGE COCK
---	TEPID WATER (EMERGENCY FIXTURES)	---	PRESSURE GAUGE WITH GAUGE COCK
---	NON POTABLE WATER SUPPLY	---	THERMOMETER WITH SHUT-OFF COCK
---	DRIP PAN DRAIN PIPING	---	HOSE BIBB (HB) OR WALL HYDRANT (WH)
---	SUMP PUMP DISCHARGE PIPING	---	SLEEVE THRU WALL
---	NATURAL GAS PIPING (LOW PRESSURE)	---	ANCHOR
---	MEDIUM PRESSURE NATURAL GAS PIPING	---	WALL CLEANOUT
---	FIRE PROTECTION (STANDPIPE, SPRINKLER, SERVICE)	---	CLEANOUT PLUG
---	DRY FIRE STANDPIPE PIPING	---	FIRE HOSE VALVE
---	SPRINKLER PIPING (SPRK.)	---	DIRECTION OF SLOPE
---	SPRINKLER DRAIN RISER PIPING	---	DIRECTION OF FLOW
---	DRY SPRINKLER PIPING	---	CAP OUTLET OR PLUGGED OUTLET
---	GATE VALVE	---	UNION
---	BUTTERFLY VALVE	---	AIR CHAMBER
---	BALL VALVE	---	CHECK VALVE
---	GLOBE VALVE	---	EXISTING PIPING TO BE REMOVED
---	TEMPERATURE AND PRESSURE RELIEF VALVE	---	CONNECT NEW TO EXISTING
---	GAS COOK / PLUG VALVE	---	RELOCATED NEW SPRINKLER HEAD
---	SOLENOID VALVE	---	
---	PRESSURE REGULATION VALVE (PRV)	---	
---	EXISTING SPRINKLER HEAD	---	
---	NEW SPRINKLER HEAD LOCATION	---	
---	IN-LINE CIRCULATING	---	
---	VALVE IN VERTICAL	---	

PLUMBING ABBREVIATIONS			
A.F.F.	ABOVE FINISH FLOOR	INV.	INVERT ELEVATION
A.F.G.	ABOVE FINISH GRADE	L-LAV.	LAVATORY
A.C.	ABOVE HUNG CEILING	WH	WALL HYDRANT
AP	ACCESS PANEL OR DOOR	MOP	MOP SINK BASIN
AC	AIR CHAMBER	PRV	PRESSURE REDUCING VALVE
B.F.F.	BELOW FINISH FLOOR	RD	ROOF DRAIN
BFP	BACKFLOW PREVENTOR	SS	SANITARY SEWER
B.G.	BELOW GRADE	SV	SPECIAL WASTE (CPVC)
DF	DRINKING FOUNTAIN	SW	SPECIAL WASTE (CPVC)
EW	ELECTRIC WATER COOLER	UR	URINAL
FD	FLOOR DRAIN	VTR	VENT THROUGH ROOF
FS	FLOOR SINK	WS	WASTE STACK
GC	GENERAL CONTRACTOR	WH	WALL HYDRANT
GCO	GRADE CLEANOUT	WC	WATER CLOSET
AWC-1	APPLIANCE WATER CONNECTION	YCO	YARD CLEANOUT
DS	DOWNSPOUT	S-SK.	SINK

## RATED WALL PENETRATIONS

ALL RATED WALL PENETRATIONS MUST MAINTAIN WALL RATING.  
USE THE LISTED FIRESTOPPING DETAILS FOR ALL RATED WALL PENETRATIONS.

## PLUMBING GENERAL NOTES:

- PROVIDE FINAL CONNECTION TO ALL EQUIPMENT FURNISHED BY OWNER AND/OR OTHERS.
- ALL PIPING SHOWN ON THE PLANS OR INDICATED BY NOTES SHALL BE CONCEALED ABOVE THE CEILING OR IN THE WALLS UNLESS NOTED OTHERWISE.

## GENERAL NOTE:

THE DESIGN/DETAIL/SECTION SHOWN IS BASED ON SCHEDULED EQUIPMENT AND IS INTENDED ONLY TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS AND/OR SUPPORT FOR THE EQUIPMENT OR SYSTEMS SPECIFIED WITH RELATION TO THE OTHER BUILDING SYSTEMS. SEE SPECIFICATIONS FOR TECHNICAL REQUIREMENTS PERTAINING TO THE EQUIPMENT.

## PLUMBING GENERAL NOTES

- INFORMATION ON EXISTING SERVICES WAS TAKEN FROM EXISTING DRAWINGS AND LIMITED FIELD SURVEY. FOR THIS REASON, EXISTING SERVICES MAY DIFFER FROM THAT AS SHOWN. ALL OBSERVED DISCREPANCIES WITH EXISTING SYSTEMS SHALL BE DOCUMENTED ON THE PROJECT RECORD DOCUMENTS.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT FOR THE COMPLETION OF ALL WORK SHOWN ON THE DRAWINGS AND/OR SPECIFIED. THIS SHALL INCLUDE ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE STATE AND LOCAL CODES, (2008 USIBC, 2006 IPC) THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), THE ENVIRONMENTAL PROTECTION AGENCY (EPA), THE LOCAL AUTHORITIES HAVING JURISDICTION AND VIRGINIA DEPARTMENT OF HEALTH REGULATIONS. ALL EQUIPMENT, MATERIALS, ETC., SHALL BE NEW UNLESS NOTED OTHERWISE AND SHALL MATCH ALL FACILITY STANDARDS OR IF APPROVED BY THE OWNER, BE OF THE SAME QUALITY AS REPRESENTED BY THE SCHEDULED ITEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF TRADES WITH EXISTING STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND SPRINKLER SYSTEMS AND PROVIDING NECESSARY OFFSETS, TRANSITIONS, PIPE REROUTING, MATERIALS AND LABOR TO ARRANGE EQUIPMENT, DUCTWORK AND PIPING AS REQUIRED FOR A PROPER AND ACCESSIBLE INSTALLATION. THIS SHALL INCLUDE ANY RELOCATION OF EXISTING EQUIPMENT OR SERVICES TO PROVIDE SPACE FOR NEW EQUIPMENT AND SERVICES.
- THE ROUTING OF ALL PIPING AS SHOWN ON THE DRAWINGS IS DIAGNOSTIC ONLY, INTENDING TO SHOW GENERAL ROUTING AND LOCATIONS OF EQUIPMENT, PIPING AND SPECIALTIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE EXACT LOCATION AND COORDINATION OF ALL ITEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SCRAP MATERIALS AND DEBRIS ASSOCIATED WITH THIS WORK FROM THE SIGHT.
- PROVIDE FINAL CONNECTION TO ALL EQUIPMENT FURNISHED BY OWNER AND/OR OTHERS.
- ALL PIPING SHOWN ON THE PLANS OR INDICATED BY NOTES SHALL BE CONCEALED ABOVE THE CEILING OR IN THE WALLS UNLESS NOTED OTHERWISE.
- ALL PIPING BRANCHES SUPPLYING PLUMBING FIXTURES SUBJECT TO WATER HAMMER SHALL BE PROTECTED BY SHOCK ABSORBERS SIZED PER THE PLUMBING AND DRAINAGE INSTITUTE (PDI).
- COMPLETE INSTALLATION DRAWINGS ARE REQUIRED. CONSTRUCTION WORK SHALL NOT START ON ANY SYSTEM UNTIL THE LAYOUT DRAWINGS HAVE BEEN APPROVED.
- MEDICAL GAS CERTIFIER SHALL REVIEW AND APPROVE ALL MEDICAL GAS DESIGN PRIOR TO INSTALLATION. ANY ISSUES SHALL BE RESOLVED PRIOR TO INSTALLATION.

## FIRE PENETRATION DETAIL

NO SCALE

CONSTRUCTION DOCUMENTS 100% SUBMITTAL FOR BID	06/13/2012
CONSTRUCTION DOCUMENTS 100% SUBMITTAL	06/22/2011
CONSTRUCTION DOCUMENTS 95% SUBMITTAL	02/01/2011
DESIGN DEVELOPMENT 50% SUBMITTAL	06/21/2010
SCHEMATIC DESIGN 15% SUBMITTAL	05/03/2010
Revisions:	Date

## CONSULTANTS:

### MEP

DAVID WRIGHT  
CCRD PARTNERS  
3311 W. BROAD ST.  
RICHMOND, VA 23230  
(804) 355-2067

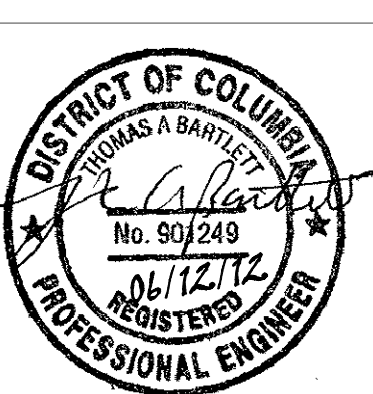
### STRUCTURAL

JOHN HANCOCK  
STROUD-PENCE & ASSOC.  
4198 COX RD., SUITE 110  
GLEN ALLEN, VA 20107  
(703) 481-8914

### LIFE SAFETY

JOHN MITROS  
RHINO FIRE PROT. ENG. PLC  
250 EXCHANGE PLACE, #B  
HERNDON, VA 20107  
(703) 481-8914

## SEAL:



## ARCHITECT/ENGINEERS:

CORNER  
23 West Broad St., Suite 200  
Richmond, Virginia 23220  
Telephone: 804.353.051  
Facsimile: 804.358.1442  
Webpage: www.csarch.com

FULLY SPRINKLERED

Project Title <b>VA MEDICAL CENTER 4E PATIENT WARD EXPANSION</b>	Project Number <b>688-336</b>
Location <b>WASHINGTON DC</b>	Building Number <b>E</b>
Date	Checked TB/DEV
Drawn	Drawn
<b>P1.01</b>	

Office of  
Facilities  
Management

